lovE-32

ATGGCTGCAGATCAAGGTATATTCACTAACTCGGTCACTATCTCGCCAGTGGTGGGGTTCACGCAC
CGGTGGAACATTACCCCGCCGTGCATTCCGACGCTCTTGTGATCGGTGTCATGCACAAAAGATCA
AATGTACTGGAAATAAGGAGGTTACTGGCCGTGCTCCCTGTCAGCGTTGCCAGCAGGCTGGACTT
CGATGCGTCTACAGTGAGCGATGCCCCAAGCGCAAGCTACGCCAATCCAGGGCAGCGGATCTCGT
CTCTGCTGACCCAGATCCCTGCTTGCACATGTCCTCGCCTCCAGTGCCCTCACAGAGTTTGCCGC
TAGACGTATCCGAGTCGCATTCCTCAAATACCTCCCGGCAATTTCTTGATCCACCGGACAGCTAC
GACTGGTCGTGGACCTCGATTTGCACTGACGAGGCTATTGACACTGACTGCTGGGGGCTGTCCCA
ATGTGATGGAGGCTTCAGCTGTCAGTTAGAGCCAACGCTGCCGGATCTACCTTCGCCCTTCGAGT
CTACGGTTGAAAAAGCTCCGTTGCCACCGGTATCGAGCGACATTGCTCGTGCGGCCAGTGCGCAA
CGAGAGCTTTTCGATGACCTGTCGGCGGTGTCGCAGGAACTGGAAGAGATCCTTCTGGCCGTGAC
GGTAGAATGGCCGAAGCAGGAAATCTGGACCCATCCCATCGGAATGTTTTTCAATGCGTCACGAC
GGCTTCTTACTGTCCTGCGCCAACAAGCGCAGGCCGACTGCCATCAAGGCACACTAGACGAATGT
TTACGGACCAAGAACCTCTTTACGGCAGTACACTGTTACATATTGAATGTGCGGATTTTGACCGC
CATATCGGAGTTGCTCCTGTCGCAAATTAGGCGGACCCAGAACAGCCATATGAGCCCACTGGAAG
GGAGTCGATCCCAGTCGCCGAGCAGAGACGACACCAGCAGCAGCAGCGGCCACAGCAGTGTTGAC
ACCATACCCTTCTTTAGCGAGAACCTCCCTATTGGTGGGCTGTTCTCCTATGTTGACCCCCTGAC
ACACGCCCTATTCTCGGCTTGCACTACGTTACATGTTGGGCTACAATTGCTGCGTGAGAATGAGA
TTACTCTGGGAGTACACTCCGCCCAGGGCATTGCAGCTTCCATCAGCATGAGCGGGGAATCAGGC
GAGGATATAGCCAGGACAGGGGCGACCAGTTCCGCAAGATGCGAGGAGCAGCCGACCACTCCAGC
GGCTCGGGTTTTGTTCATGTTCTTGAGTGATGAAGGGGCTTTCCAGGAGGCAAAGTCTGCTGGTT
CCCGAGGTCGAACCATCGCAGCACTGCGACGATGCTATGAGGATATCTTTTCCCTCGCCCGCAAA
CACAAACATGGCATGCTCAGAGACCTCAACAATATTCCTCCATGA (SEQ ID NO:82)

lovE-33

ATGGCTGCAGATCAAGGTATATTCACGAACTCGGTCACTCTCTCGCCAGTGGAGGGTTCACGCAC
CGGTGGAACATTACCCCGCCGTGCATTCCGACGCTCTTGTGATCGGTGTCATGCACGAAAGATCA
AATGTACTGGAAATAAGGAGGTTACTGGCCGTGCTCCCTGTCAGCGTTGCCAGCAGGCTGGACTT
CGATGCGTCTACAGTGAGCGATGCCCCAAGCGCAAGCTACGCCAATCCAGGGCAGCGGATCTCGT
CTCTGCTGACCCAGATCCCTGCTTGCACATGTCCTCGCCTCCAGTGCCCTCACAGAGCTTGCCGC
TAGACGTATCCGAGTCGCATTCCTCAAATACCTCCCGGCAATTTCTTGATCCACCGGACAGCTAC
GACTGGTCGTGGACCTCGATTGGCACTGACGAGGCTATTGACACTGACTGCTGGGGGCTGTCCCA
ATGTGATGGAGGCTTCAGCTGTCAGTTAGAGCCAACGCTGCCGGATCTACCTTCGCCCTTCGAGT
ATACGGTTGAAAAAGCTCCGTTGCCACCGGTATCGAGCGACATTGCTCGTGCGGCCAGTGCGCAA
CGAGAGCTTTTCGATGACCTGTCGGCGGTGTCGCAGGAACTGGAAGAGATCCTTCTGGCCGTGAC
GGTAGAATGGCCGAAGCAGGAAATCTGGACCCATCCCATCGGAATGTTTTTCAATGCGTCACGAC
GGCTTCTTACTGTCCTGCGCCAACAAGCGCAGGCCGACTGCCATCAAGGCACACTAGACGAATGT
TTACGGACCAAGAACCTCTTTACGGCAGTACACTGTTACATATTGAATGTGCGGATTTTGACCGC
CATATCGGAGTTGCTCCTGTCGCAAATTAGGCGGACCCAGAACAGCCATATGAGCCCACTGGAAG
GGAGTCGATCCCAGTCGCCGAGCAGAGACGACACCAGCAGCAGCAGCGGCCACAGCAGTGTTGAC
ACCATACCCTTCTTTAGCGAGAACCTCCCTATTGGTGAGCTGTTCTCCTATGTTGACCCCCTGAC
ACACGCCCTATTCTCGGCTTGCACTACGTTACATGTTGGGGTACAATTGCTGCGTGAGAATGAGA
TTACTCTGGGAGTACACTCCGCCCAGGGCATTGCAGCTTCCATCAGCATGAGCGGGGAACCAGGC
GAGGATATAGCCAGGACAGGGGCGACCAATTCCACAAGATGCGAGGAGCAGCCGACCACTCCAGC
GGCTCGGGTTTTGTTCATGTTCTTGAGTGATGAAGGGGCTTTCCAGGAGGCAAAGTCTGCTGGTT
CCCGAGGTCGAACCATCGCAGCACTGCGACGATGCTATGAGGATATCTTTTCCCTCGCCCGCAAA
CACAAACATGGCATGCTCAGAGACCTCAACAATATTCCTCCATGA (SEQ ID NO:83)

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lovE-34

ATGGCTGCAGATCAAGGTATATTCACGAACTCGGTCACTCTCTCGCCAGTGGAGGGTTCACGCAC
CGGTGGAACATTACCCCGCCGTGCATTGCGACGCTCTTGTGATCGGTGTCATGCACAAAAGATCA
AATGTACTGGAAATAAGGAGGTTATTGGCCGTGCTCCCTGTCAGCGTTGCCAGCAGGCTGGACTT
CGATGCGTATACAGTGAGCGATGCCCCAAGCGCAAGCTACGCCAATCCAGGGCAGCGGATCTCGT
CTCTGCTGACCCAGATCCCTGCTTGCACATGTCCTCGCCTCAAGTGCCCTCACAGAGCTTGTCGC
TAGACATATCCGAGTCGCATTCCTCAAATACCTCCCGGCAATTTCTTGATCCACCGGACAGCTAC
GACTGGTCGTGGACCTCGATTGGCACTGACGAGGCTATTGACACTGACTGCTGGGGGCTGTCCCA
ATGTGATGGAGGCTTCAGCTGTCAGTTAGAGCCAACGCTGCCGGATCTACCTTCGCCCTTCGAGT
CTACGGTTGAAAAAGCTCCGTTGCCACCGGTATCGAGCGACATTGCTCGTGCGGCCAGTGCGCAA
CGAGAGCTTTTCGATGACCTGTCGGCGGTGTCGCAGGAACTGGAAGAGATCCTTCTGGCCGTGAC
GGTAGAATGGCCGAAGCAGGAAATCTGGACCCATCCCATCGGAATGTTTTTCAATGCGTCACGAC
GGCTTCTTACTGTCCTGCGCCAACAAGCGCAGGCCGACTGCCATCAAGGCACACTAGACGAATGT
TTACGGACCAAGAACCTCTTTACGGCAGTACACTGTTACATATTGAATGTGCGGATTTTGACCGC
CATATCGGAGTTGCTCCTGTCGCAAATTAGGCGGACCCAGAACAGCCATATGAGCCCACTGGAAG
GGAGTCGATCCCAGTCGCCGAGCAGAGACGACACCAGCAGCAGCAGCGGCCACAGCAGTGTTGAC
ACCATACCCTTCTTTAGCGAGAACCTCCCTATTGGTGAGCTGTTCTCCTATGTTGACCCCCTGAC
ACACGCCCTATTCTCGGCTTGCACTACGTTACATGTTGGGGTACAATTGCTGCGTGAGAATGAGA
TTACTCTGGGAGTACACTCCGCCCAGGGCATTGCAGCTTCCATCAGCATGAGCGGGGAACCAGGC
GAGGATATAGCCAGGACAGGGGCGACCAATTCCGCAAGATGCGAGGAGCAGCCGACCACTCCAGC
GGCTCGGGTTTTGTTCATGTTCTTGAGTGATGAAGGGGCATTCCAGGAGGCAAAGTCTGCTGGTT
CCCGAGGTCGAACCATCGCAGCACTGCGACGATGCTATGAGGATATCTTTTCCCTCGCCCGCAAA
CACAAACATGGCATGCTCAGAGACCTCAACAATATTCCTCCATGA (SEQ ID NO:84)

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lovE-36

ATGGCTGCAGATCAAGGTATATTCACGAACTCGGTCACTCTCTCACCAGTGGAGGGTTCACGCAC
CGGTGGAACATTACCCCGCCGTGCATTCCGACGCTCTTGTGATCGGTGTCATGCACAAAAGATCA
AATGTACTGGAAATAAGGAGGTTACTGGCCGTGCTCCCTGTCAGCGTTGCCAGCAGGCTGGACTT
CGATGCGTCTACAGTGAGCGATGCCCCAAGCGCAAGCTACGCCAATCCAGGGCAGCGAATCTCGT
CTCTGCTGACCCAGATCCCTGCTTACACATGTCCTCGCCTCCAGTGCCCTCACAGAGCTTGCCGC
TAGACGTATCCGAGTCGCATTCCTCAAATACCTCCCGGCAATTTCTTGATCCACCGGACAGCTAC
GACTGGTCGTGGACCTCGATTGGCACTGACGAGGCTTTTGACACTGACTGCTGGGGGCTATCCCA
ATGTGATGGAGGCTTCAGCTGTCAGCTAGAGCCAACGCTGCCGGATCTACCTTCGCCCTTCGAGT
CTACGGTTGAAAAAGCTCCGTTGCCACCGGTATCGAGCGACATTGCTCGTGCGGCCAGTGCGCAA
CGAGAGCTTTTCGATGACCTGTCGGCGGTGTCGCAGGAACTGGAAGAGATCCTTCTGGCCGTGAC
GGTAGAATGGCCGAAGCAGGAAATCTGGACCCATCCCATCGGAATCTTTTTCAATGCGTCACGAC
GGCTTCTTACTGTCCTGCGCCAGCAAGCGCAGGCCGACTGCCATCAAGGCACACTAGACGAATGT
TTACGGACCAAGAACCTCTTTACGGCAGTACACTGTTACATATTGAATGTGCGGATTTTGACCGC
CATATCGGAGTTGCTCCTGTCGCAAATTAGGCGGACCCAGAACAGCCATATGAGCCCACTGGAAG
GGAGTCGATCCCAGTCGCCGAGCAGAGACGACATCAGCAGCAGCAGCGGCCACAGCAGTGTTGAC
ACCATACCCTTCTTTAGCGAGAACCTCCCTATTGGTGAGCTGTTCTCCTATGTTGACCCCCTGAC
ACACGCCCTATTCTCGGCTTGCACTACGTTACATGTTGGGGTACAATTGCTGCGTGAGAATGAGA
TTACTCTGGGAGTACACTCCGCCCAGGGCATTGCAGCTTACATCAGCAAGAGCGGGGAACCAGGC
GAGGATATAGCCAGGACAGGGGCGACCAATTCCGCAAGATGCGAGGAGCAGCCGACCACTCCAGC
GGCTCGGGTGTTGTTCATGTTCTTGAGTGATGAAGGGGCTTTCCAGGAGGCAAAGTCTGCTGGTT
CCCGAGGTCGAACCATCGCAGCACTGCGACGATGCTATGAGGATATCTTTTCCCTCGCCCGCAAA
CACAAACATGGCATGCTCAGAGACCTCAACAATATTCCTCCATGA (SEQ ID NO:85)

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lovE-37

ATGGCTGCAGATCAAGGTATATTCACGAACTCGGTCACTCTCTCGCCAGTGGAGGGTTCACGCAC
CGGTGGAACATTACCCCGCCGTGCATTCCGACGCTCTTGTGATCGGTGTCATGCACAAAAGATCA
AATGTATTGGAAATAAGGAGGTTACTGGCCGTGCTCCCTGTCAGCGTTGCCAACGGGCTGGACTT
CGATGCGTCTACAGTGAGCGATGCCCCAAGCGCAGGCTACGCCAATCCAGGGCAGCGGATCTCGT
CTCTGCTGACCCAGATCCCTGCTTGCACATGTCCTCGCCTCCAGTGCCCTCACAGAGCTTGCCGC
TAGACGTATCCGAGTCGCATTCCTCAAATACCTCCCGGCAATTTCTTGATCCACCGGACAGCTAC
GACTGGTCGTGGACCTCGATTGGCACTGACGAGGCTATTGACACTGACTGCTGGGGGCTGTCCCA
ATGTGATGGAGGCTTCAGCTGTCAGTTAGAGCCAACGCTGCCGGATCTACCTTCGCCCTTCGAGT
CTACGGTTGAAAAAGCTCCGTTGCCACCGGTATCGAGCGACATTGCTCGTGCGGCCAGTGCGCAA
CGAGAGCTTTTCGATGACCTGTCGGCGGTGTCGCAGGAACTGGAAGAGATCCTTCTGGCCGTGAC
GGTAGAATGGCCGAAGCAGGAAATCTGGACCCATCCCATCGGAATGTTTTTCAATGCTTCACGAC
GGCTTCTTACTGTCCTGCGCCAACAAGCTCAGGCCGACTGCCATCAAGGCACACTAGACGAATGT
TTACGGACCAAGAACCTCTTTACGGCAGTACACTGTTACATATTGAATGTGCGGATTTTGACCGC
CATATCGGAGTTGCTCCTGTCGCAAATTAGGCGGACCCAGAACAGCCATATGAGCCCACTGGAAG
GGAGTCGATCCCAGTCGCCGAGCAGAGACGACACCAGCAGCAGCAGCGGCCACAGCTGTGTCGAC
ACCATACCCTTCTTTAGCGAGAACCTCCCTATTGGTGAGCTGTTCTCCTATGTTGACCCCCTGAC
ACACGCCCTATTCTCGGCTTGCACTACGTTACATGTTGGGGTACAATTGCTGCGTGAGTATGAGA
TTACTCTGGGAATACACTCCGCCCAGGGCATTGCAGCTTCCATCAGCATGAGCGGGGAACCAGGC
GAGGATATAGCCAGGACAGGGGCGACCAATTCCGCAAGATGCGAGGAGCAGCCGACCACTCCAGC
GGCTCGGGTTTTGTTCATGTTCTTGAGTGATGAAGGGGCTTTCCAGGAGGCAAAGTCTGCTGGTT
CCCGAGGTCGAACCATCGCAGCACTGCGACGATGCTATGAGGATATCTTTTCCCTCGCCCGCAAA
CACAAACATGGCATGCTCAGAGATCTCAACAATATTCCTCCATGA (SEQ ID NO:86)

lovE-38

ATGGCTGCAGATCAAGGTATATTCACGAACTCGGTCACTCTCTCGCCAGTGGAGGGTTCACGCAC
CGGTGGAACATTACCCCGCCGTGCATTCCGACGCTCTTGTGATCGGTGTCATGCACGAAAGATCA
AATGTACTGGAAATAAGGAGGTTACTGGCCGTGCTCCCTGTCAGCGTTGCCAGCAAGCTGGACTT
CGATGCGTCTATAGTGAGCGATGCCCCAAGCGCAAGCTACGCCAATCCAGGGCAGCGGATCTCGT
CTCTGCTGACCCAGATCCCTGCTTGCACATGTCCTCGCCTCCAGTGCCCTCACAGAGCTTGCCGC
TAGACGTATCCGAGTCGCATTCCTCAAATACCTCCCGGCAATTTCTTGATCCACCGGACAGCTAC
GACTGGTCGTGGACCTCGATTGGCACTGACGAGGCTATTGACACTGACTGCTGGGGGCTGTCCCA
ATGTGATGGAGGCTTCAGCTGTCAGCTAGAGCCAACGCTGCCGGATCTACCTTCGCCCTTCGAGT
CTACGGTTGAAAAAGCTCCGTTGCCACCGGTATCGAGCGACATTGCTCGTGCGGCCAGTGCGCAA
CGAGAGCTTTTCGATGACCTGTCGGCGGTGTCGCAGGAACTGGAAGAGATCCTTCTGGCCGTGAC
GGTAGAATGGCCGAAGCAGGAAATCTGGACCCATCCCATCGGAATGTTTTTCAATGCGTCACGAC
GGCTTCTTACTGTCCTGCGCCAACAAGCGCAGGCCGACTGCCATCAAGGCACACTAGACGAATGT
TTACGGACCAAGAACCTCTTTACGGCAGTACACTGTTACATATTGAATGTGCGGATTTTGACCGC
CATATCGGAGTTGCTCCTGTCGCAAATTAGGCGGATCCAGAACAGCCATATGAGCCCACTGGAAG
GGAGTCGATCCCAGTCGCTGAGCAGAGACGACACCAGCAGCAGTAGCGGCCACAGCAGTGTTGAC
ACCATACCCTTCTTTAGCGAGAACCTCCCTATTGATGAGCTGTTCTCCTATGTTGACCCCCTGAC
ACACGCCCTATTCTCGGCTTGCACTACGTTACATGTTGGGGTACAATTGCTGCGTGAGAATGAGA
TTACTCTGGGAGTACACTCCGCCCAGGGCATTGCAGCTTCCATCAGCATGAGCGGGGAACTAGGC
GAGGATATAGTCAGGACAGGGGCGACCAATTCCGCAAGATGCGAGGAGCAGCCGACCACTCCAGC
GGCTCGGGTTTTGTTCATGTTCTTGAGTGATGAAGGGGCTTTCCAGGAGGCAAAGTCTGCTGGTT
CCCGAAGTCGAACCATCGCAGCACTGCGACGATGCTATGAGGATATCTTTTCCCTCGCCCGCAAA
CACAAACATGGCATGCTCAGAGACCTCAACAATATTCCTCCATGA (SEQ ID NO:87)

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